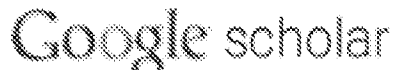


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GA Margulis - Combinatorica, 1982 - Springer

... perform n operations, where n is the order of the **parity-check matrix** and b ... Since m and q are **relatively prime**, there exists an integral unimodular **matrix** ...

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[PDF] ► Pseudorandom construction of low-density **parity-check** codes using linear congruential sequences

A Prabhakar, K Narayanan - IEEE Transactions on Communications, 2002 - Citeseer

... C4. (optional) a is **relatively prime** to M It should be noted here that since the **parity check matrix** is not constructed in systematic ...

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On algebraic construction of Gallager and circulant low-density **parity-check** codes

H Tang, J Xu, Y Kou, S Lin, K Abdel-Ghaffar, PMCS ... - IEEE Transactions on Information Theory, 2004 - ieeexplore.ieee.org

... The **parity-check matrix** of a code in this class has exactly the same form as that proposed by Gallager [1], [2]. Section IV gives a class of LDPC codes ...

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[CITATION] Some results on quasi-cyclic codes

CL Chen, WW Peterson, EJ Weldon Jr - Information and Control, 1969 - Academic Press.

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On lowest-density MDS codes- ► kfupm.edu.sa [PDF]

M Blaum, RM Roth - IEEE Trans. on Information theory, 1999 - eprints.kfupm.edu.sa

... By a **parity-check matrix** (respectively, generator **matrix**) of an IF ... we mean a **parity-check matrix** (respectively, generator **matrix**) over IF q of (C) IF q

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EVENODD: An efficient scheme for tolerating double disk failures in RAID architectures

M Blaum, J Brady, J Bruck, J Menon - IEEE Transactions on computers, 1995 - doi.ieeecomputersociety.org

... A major advantage of EVENODD is that it only requires **parity** hardware, which is typically present in standard RAID-5 controllers. ...

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Algebraic structure of quasicyclic codes- ► umass.edu [PDF]

K Lally, P Fitzpatrick - Discrete Applied Mathematics, 2001 - Elsevier

... where I is the identity **matrix**. ... For each i , we **check** that the diagonal component is a divisor of $x^m - 1$. Then the generator g_i is multiplied by a $h_i = (x^m - 1) / (x^m - g_i)$...

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Byte-oriented error-correcting codes for semiconductor memory systems

CL Chen - IEEE Transactions on Computers, 1986 - ieeexplore.ieee.org

... A well-known method of constructing SBC-DBD codes is the construction of Reed-Solomon codes with three **check** bytes [2]-[5]. Let b be the number of bits per byte ...

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T Marshall Jr - IEEE Journal on Selected Areas in Communications, 1984 - ieeexplore.ieee.org

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C Faloutsos, D Metaxas - IEEE Transactions on Computers, 1991 - ieeexplore.ieee.org

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